



10/576435

C2fC

Docket No.: 15115/223001
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Letters Patent of:
Kazuaki Miyoshi et al.

Patent No.: 7,557,314

Issued: July 7, 2009

For: ROTATING-PRESSING OPERATION TYPE
ELECTRONIC PART AND ELECTRONIC
DEVICE USING THIS ROTATING-PRESSING
OPERATION TYPE ELECTRONIC PART

REQUEST FOR CERTIFICATE OF CORRECTION
PURSUANT TO 37 CFR 1.322

Attention: Certificate of Correction Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Certificate
JUL 22 2009
of Correction

Dear Sir or Madam:

Upon reviewing the above-identified patent, Patentee noted a typographical error which should be corrected.

On the Cover Page:

On the Cover Page, section (56) References Cited, U.S. Patent Documents, U.S. Patent Number "6,194,643" should be --6,194,673--.

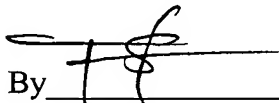
The error was not in the application as filed by applicants; accordingly no fee is required.

Transmitted herewith is a proposed Certificate of Correction effecting such amendment. Also enclosed, as evidence of the error, is a copy of the cover page as issued and a copy of the Information Disclosure Statement By Applicant as allowed. Patentee respectfully solicits the granting of the requested Certificate of Correction.

Applicants believe no fee is due with this request. However, if a fee is due, please charge our Deposit Account No. 50-0591, under Order No. 15115/223001.

Dated: July 17, 2009

Respectfully submitted,

By 
Thomas K. Scherer
Registration No.: 45,079
OSHA · LIANG LLP
909 Fannin Street, Suite 3500
Houston, Texas 77010
(713) 228-8600
(713) 228-8778 (Fax)



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(12) **United States Patent**
Miyoshi et al.

(10) **Patent No.:** **US 7,557,314 B2**
(45) **Date of Patent:** **Jul. 7, 2009**

(54) **ROTATING-PRESSING OPERATION TYPE
ELECTRONIC PART AND ELECTRONIC
DEVICE USING THIS ROTATING-PRESSING
OPERATION TYPE ELECTRONIC PART**

(75) **Inventors:** **Kazuaki Miyoshi, Ritto (JP); Keiji
Komiya, Koto-ku (JP); Takeshi
Miyasaka, Ritto (JP)**

(73) **Assignee:** **OMRON Corporation, Kyoto (JP)**

(*) **Notice:** Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 527 days.

(21) **Appl. No.:** **10/576,435**

(22) **PCT Filed:** **Oct. 13, 2004**

(86) **PCT No.:** **PCT/JP2004/015059**

§ 371 (c)(1),
(2), (4) **Date:** **Apr. 19, 2006**

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PCT Pub. Date: **Apr. 28, 2005**

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Oct. 20, 2003 (JP) 2003-359243

(51) **Int. Cl.**
H01H 19/00 (2006.01)

(52) **U.S. Cl. 200/14; 200/4**

(58) **Field of Classification Search** 200/4,
200/5 R, 14, 17 R, 18; 341/20, 22, 35; 345/156,
345/157, 160, 161, 163, 167, 168, 169, 184;
335/205-207; 455/550.1, 575.1, 90.3, 344,
455/66.1, 74, 418

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,194,643 B1 2/2001 Sato Jun et al.
(Continued)

FOREIGN PATENT DOCUMENTS

GB 1 537 028 A 12/1978
(Continued)

OTHER PUBLICATIONS

International Search Report for PCT/JP2004/015059 dated Nov. 22,
2004 (2 pages).

(Continued)

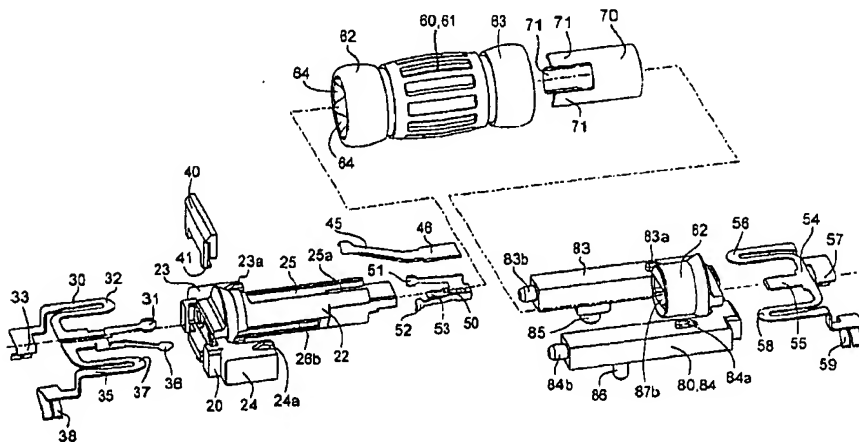
Primary Examiner—Michael A Friedhofer

(74) *Attorney, Agent, or Firm*—Osha • Liang LLP

(57) **ABSTRACT**

A rotating and pressing operation type electronic component has a reduced size, but without lowering workability, reliability of contact, and operability, wherein an inner contact formed of a tubular conductor and formed by extending, parallel with each other; a plurality of extension parts from an opening edge part along the axis thereof at specified angular pitches is inserted into a rotating operation body and formed integrally therewith. The elastic contact parts of two contact pieces are disposed on the inner peripheral surfaces of the extension parts of the inner contact so as to contact these inner peripheral surfaces, and the elastic contact parts of a common contact piece are disposed on the inner peripheral surfaces of the inner contact excluding the extension part so as to be always brought into contact with the inner peripheral surfaces.

20 Claims, 27 Drawing Sheets





Used in Lieu of PTO/SB/08A/B
(Based on PTO 04-07 version)

Substitute for Form PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete If Known	
				Application Number	10/576,435-Conf. #2417
				Filing Date	April 19, 2006
				First Named Inventor	Kazuaki Miyoshi
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	15115/223001

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
/MF/	AA*	US-6 194 673-B1	02-27-2001	Sato Jun et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
/MF/	BA	GB-1 537 028-A	12-29-1978	Plessey Co. Ltd.		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/MF/	CA	Supplementary Search report for European patent application No. 04792300.8, dated March 5, 2007, 3 pages.	

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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Michael Friedhofer/	Date Considered	02/28/2009
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**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**Page 1 of 1

PATENT NO. : 7,557,314
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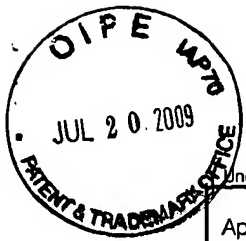
It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Cover Page:

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U.S. Patent Number "6,194,643" should be --6,194,673--.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Thomas K. Scherer
OSHA · LIANG LLP
909 Fannin Street, Suite 3500
Houston, Texas 77010



Application No. (if known): 10/576,435

Attorney Docket No.: 15115/223001

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